

Claims

1. Stabilized polyamide composition, characterized in that as stabilizer at least one copper complex and at least one organic halogen compound is contained.
2. Stabilized polyamide composition in accordance with claim 1, characterized in that the organic halogen compound is a chlorine-containing and/or bromine-containing compound.
3. Stabilized polyamide composition in accordance with claim 1 or 2, characterized in that the molar ratio copper to halogen is 1:1,5-15.
4. Stabilized polyamide composition in accordance with at least one of the preceding claims, characterized in that the at least one copper complex is a complex of a phosphine compound and/or mercaptobenzimidazole compound.
5. Use of at least one copper complex in combination with at least one organic halogen compound for the stabilization of polyamides.
6. Use in accordance with claim 5, characterized in that the at least one copper complex is a complex with a phosphine and/or mercaptobenzimidazole compound.

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7. Process for the preparation of the stabilized polyamide composition, comprising the mixing of at least one copper complex and at least one organic halogen compound with at least one polyamide.
8. Process in accordance with claim 7, characterized in that the at least one copper complex and the at least one organic halogen compound are added in the form of a masterbatch.
9. Process in accordance with claim 7 or 8, characterized in that the at least one copper complex is a complex with a phosphine and/or mercaptobenzimidazole compound.
10. Stabilized polyamide composition, characterized in that as stabilizer at least one complex of copper with a phosphine compound and/or mercaptobenzimidazole compound is contained, wherein the complex possesses halogen-carbon-bonds.
11. Use of at least one copper complex with a phosphine compound and/or mercaptobenzimidazole compound for the stabilization of polyamides, wherein the complex possesses halogen-carbon-bonds.
12. Stabilized polyamide composition in accordance with at least one of the claims 1 to 4, characterized in that furthermore at least one organic phosphite, inorganic phosphonate or inorganic hypophosphite is contained.
13. Process in accordance with at least one of the claims 7 to 9, characterized in that at least one organic phosphate, inorganic phosphonate or inorganic hypophosphite is added, in a separate additional processing step to the mixture obtained in accordance with at least one of the claims 7 to 9.

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Abstract

Polyamide composition, stabilized with copper complexes and organic halogen compounds

Stabilized polyamide composition, characterized in that as stabilizer at least one copper complex and at least one organic halogen compound is contained.